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TOWNSEND and TOWNSEND and CREW LLP

By: MAIHAN VO

PATENT
Attorney Docket No.: 014210-000730US

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ADELMAN *et al.*

Application No.: 09/254,590

Filed: March 10, 1999

For: SMALL AND INTERMEDIATE
CONDUCTANCE, CALCIUM-
ACTIVATED POTASSIUM
CHANNELS AND USES THEREOF

Examiner: Pak, Michael D.

Art Unit: 1646

RESPONSE TO OFFICE
COMMUNICATION AND
PRELIMINARY AMENDMENT

21/c
J.G.J
2/12/02

Box CPA
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants provide the following response to the Office Communication dated November 6, 2001. A petition to extend the time for response for two months, from December 6, 2001 to February 6, 2002, is submitted herewith. Also submitted herewith is a request to file a continued prosecution application (CPA). Please amend the application as follows.

IN THE CLAIMS:

✓ Please cancel claims 56-99 without prejudice to subsequent revival.

Please add new claims 100-106 as follows.

C1
100. An isolated nucleic acid encoding a polypeptide monomer of an SK2 calcium-activated potassium channel, said monomer forming a potassium channel having a unit conductance of between 2 and 60 pS when the nucleic acid encoding the monomer is